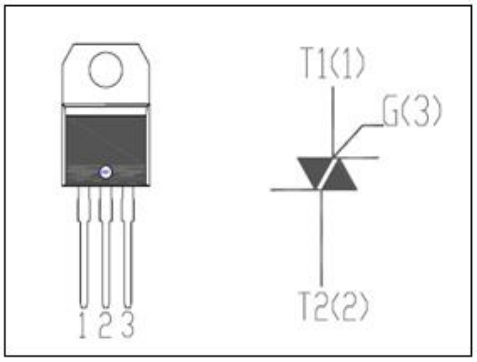
isc Triacs BTB12-600CW

FEATURES

- With TO-220AB non insulated package
- Suitables for general purpose AC switching. Which can be used as an ON/OFF function in applications such as static relays, heating regulation,induction motor starting circuits. Or for phase control operation in light dimmers, motor speed controllers etc.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage	600	V
V_{RRM}	Repetitive peak off-state voltage	600	V
$I_{T(RMS)}$	RMS on-state current (full sine wave)Tc=105℃	12	A
I_{TSM}	Non-repetitive peak on-state current t_p=20ms	120	A
T_j	Operating junction temperature	125	℃
T_{stg}	Storage temperature	-40~150	℃
$R_{th(j-c)}$	Thermal resistance, junction to case	1.4	℃/W
$R_{th(j-a)}$	Thermal resistance, junction to ambient	60	℃/W

ELECTRICAL CHARACTERISTICS (T_C=25℃ unless otherwise specified)

SYMBOL	PARAMETER		CONDITIONS	MAX	UNIT
I_{RRM}	Repetitive peak reverse current		V_R=V_{RRM}, V_R=V_{RRM}, Tj=125℃	0.005 1	mA
I_{DRM}	Repetitive peak off-state current		V_D=V_{DRM}, V_D=V_{DRM}, Tj=125℃	0.005 1	mA
I_{GT}	Gate trigger current	Ⅰ-Ⅱ-Ⅲ	V_D=12V; R_L= 30Ω	35	mA
I_H	Holding current		I_{GT}= 0.5A, Gate Open	35	mA
V_{GT}	Gate trigger voltage	Ⅰ-Ⅱ-Ⅲ	V_D=12V; R_L= 30Ω	1.3	V
V_{TM}	On-state voltage		I_T= 17A; t_p= 380μs	1.55	V

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